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PRODUCTS CATALOGUE

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1. SBO/KBO - ROUND STRANDED COPPER CABLES



Construction and Application:

These cables are manufactured out of wires that have a stronger diameters than 0,10 mm. They can be used for all applications where you need more mechanical stability than higher flexibility.

Technical Data:

Material: 0,15 mm - 0,85 mm annealed Cu ETP1 wires *uncoated or tinned.

Delivery: plastic reels, in rings, on spools or wooden drums.

UNCOATED Part-No	TINNED Part-No	Cross sec. mm ²	Construction		Weight kg/100m
			wire dia. mm	outer dia. mm	
SBO-0060	KBO-0060	6	acc. to customers' wishes	4	6
SBO-0100	KBO-0100	10		4,5	10
SBO-0160	KBO-0160	16		5,8	16
SBO-0250	KBO-0250	25		7,5	25
SBO-0350	KBO-0350	35		9	35
SBO-0500	KBO-0500	50		11	50
SBO-0700	KBO-0700	70		13	70
SBO-0950	KBO-0950	95		15	95
SBO-1200	KBO-1200	120		17	120
SBO-1500	KBO-1500	150		19	150
SBO-1850	KBO-1850	185		21	185
SBO-2400	KBO-2400	240		22,5	240
SBO-3000	KBO-3000	300		25,5	300
SBO-4000	KBO-4000	400		33,5	400
SBO-5000	KBO-5000	500	38	500	

2. SDYO/KDYO - HIGHLY FLEXIBLE ROUND STRANDED COPPER CABLES

Construction and Application:

These cables are manufactured from 0,05 / 0,07 or 0,10 mm diameter Cu-ETP1 wires according to the needed cross-section. It is used 1+6 (1-300 mm²), 5+11 or 1+6+12 (301 mm² + up) ropes construction that are stranded at special machines according to the needed conductor cross-section to provide the best flexibility and current capacity.



With providing higher flexibility caused by using thin wires and the bigger cross-section with small dimensions because of the construction system, they are well suited into small places, which also require movements and higher current capacity as well.

Technical Data:

Material: annealed Cu ETP1 wires, uncoated or tinned.

- wire 0,05 mm ----- 1 mm²
- wire 0,07 mm ----- 1,5 mm² - 16 mm²
- wire 0,10 mm ----- 25 mm² - 1000 mm²

Delivery: plastic reels, in rings, on spools or wooden drums.

UNCOATED Part-No	TINNED Part-No	Cross sec. mm ²	Construction		Weight kg/100m
			diameter and no. of wires	outer dia. mm	
SDYO-0010	KDYO-0010	1	512 X 0,05	1,5	1
SDYO-0015	KDYO-0015	1,5	392 X 0,07	1,9	1,7
SDYO-0025	KDYO-0025	2,5	651 X 0,07	2,4	2,7
SDYO-0040	KDYO-0040	4	1036 X 0,07	3,1	4
SDYO-0060	KDYO-0060	6	1561 X 0,07	4	6
SDYO-0080	KDYO-0080	8	2100 X 0,07	4,2	8
SDYO-0100	KDYO-0100	10	2604 X 0,07	4,5	10
SDYO-0160	KDYO-0160	16	4200 X 0,07	5,7	16
SDYO-0250	KDYO-0250	25	3192 X 0,10	7,5	25
SDYO-0350	KDYO-0350	35	4480 X 0,10	9	35
SDYO-0500	KDYO-0500	50	6383 X 0,10	11	50
SDYO-0700	KDYO-0700	70	8918 X 0,10	13	70
SDYO-0950	KDYO-0950	95	12100 X 0,10	15	100
SDYO-1200	KDYO-1200	120	15300 X 0,10	17	127
SDYO-1500	KDYO-1500	150	19152 X 0,10	19	158
SDYO-1850	KDYO-1850	185	23580 X 0,10	21	194
SDYO-2400	KDYO-2400	240	30600 X 0,10	23,5	247
SDYO-3000	KDYO-3000	300	38200 X 0,10	27,5	310
SDYO-4000	KDYO-4000	400	50960 X 0,10	33	410
SDYO-5000	-	500	64288 X 0,10	38	508
SDYO-6000	-	600	76832 X 0,10	43	600
SDYO-7500	-	750	95648 X 0,10	46	750
SDYO-8500	-	850	108976 X 0,10	48	850
SDYO-1000	-	1000	128576 X 0,10	54	1010

3. STYO/KTYO - HIGHLY FLEXIBLE ROUND BRAIDED COPPER CABLES

Construction and Application:

These braids are manufactured from annealed or tinned Cu-ETP 1 wires according to DIN EN 13602. The wires are bunched together after the needed cross-section is calculated. Unlike the flexible braided tapes, bunches of wires are braided with machines that have 8/12 carries so that they have a round shape.



Technical Data:

Material: 0,05 mm - 0,16 mm annealed Cu ETP1 wires uncoated or tinned.

Delivery: plastic reels, in rings, on spools or wooden drums.

UNCOATED Part-No	TINNED Part-No	Cross sec. mm ²	Construction		Weight kg/100m
			diameter and no. of wires	outer dia. mm	
STYO-0035-05	KTYO-0035-05	0,35	8 X 23 - 0,05	0,95	0,35
STYO-0050-05	KTYO-0050-05	0,5	8 X 32 - 0,05	1,1	0,5
STYO-0075-05	KTYO-0075-05	0,75	8 X 48 - 0,05	1,35	0,75
STYO-0100-05	KTYO-0100-05	1	8 X 64 - 0,05	1,6	1
STYO-0150-07	KTYO-0150-07	1,5	12 X 33 - 0,07	1,9	1,5
STYO-0200-07	KTYO-0200-07	2	12 X 44 - 0,07	2,2	2
STYO-0250-07	KTYO-0250-07	2,5	12 X 54 - 0,07	2,4	2,5
STYO-0300-07	KTYO-0300-07	3	12 X 65 - 0,07	2,7	3
STYO-0400-07	KTYO-0400-07	4	12 X 86 - 0,07	3,1	4
STYO-0600-07	KTYO-0600-07	6	12 X 130 - 0,07	4	6
STYO-0800-07	KTYO-0800-07	8	12 X 174 - 0,07	4,5	8
STYO-1000-07	KTYO-1000-07	10	12 X 217 - 0,07	5	10
STYO-1200-07	KTYO-1200-07	12	12 X 260 - 0,07	5,5	12
STYO-1600-10	KTYO-1600-10	16	12 X 170 - 0,10	6,3	16
STYO-2100-10	KTYO-2100-10	21	12 X 223 - 0,10	7,2	21
STYO-2500-10	KTYO-2500-10	25	12 X 266 - 0,10	7,9	25
STYO-3500-16	KTYO-3500-16	35	12 X 145 - 0,16	9,7	35
STYO-5000-16	KTYO-5000-16	50	12 X 207 - 0,16	12	50
STYO-7000-16	KTYO-7000-16	70	12 X 290 - 0,16	14,5	70
STYO-9500-16	KTYO-9500-16	95	12 X 394 - 0,16	17	95

4. STO/KTO – TUBULAR BRAIDS FOR COVERING AND SHIELDING

Construction and Application:

We produce tubular braids for covering your conductors and shielding your cables against interferences to realize a safe data transfer. Our wide range of diameter choices provides you a simple coordination by applying on your items. We can also produce special designs in diameters according to your wishes.



Technical Data:

Material: 0,10 - 0,30 mm annealed Cu ETP1 wires *uncoated or tinned.

Delivery: plastic reels, in rings, on spools or wooden drums.

UNCOATED Part-No	TINNED Part-No	Cross sec. mm ²	Construction	
			diameter and no. of wires	outer dia.(mm) min-max
STO-0025-10	KTO-0025-10	0,25	16 X 2 - 0,10	0,7 - 3
STO-0038-10	KTO-0038-10	0,38	16 X 3 - 0,10	0,8 - 3
STO-0050-10	KTO-0050-10	0,50	16 X 4 - 0,10	1,0 - 4
STO-0088-10	KTO-0088-10	0,88	16 X 7 - 0,10	1,5 - 6
STO-0132-10	KTO-0132-10	1,32	24 X 7 - 0,10	2,8 - 8
STO-0198-10	KTO-0198-10	1,98	36 X 7 - 0,10	4,0 - 12
STO-0310-10	KTO-0310-10	3,10	36 X 11 - 0,10	6,0 - 14
STO-0530-20	KTO-0530-20	5,30	24 X 7 - 0,20	5,0 - 10
STO-0680-20	KTO-0680-20	6,80	24 X 9 - 0,20	6,5 - 14
STO-0790-20	KTO-0790-20	7,90	36 X 7 - 0,20	8,5 - 25
STO-1020-20	KTO-1020-20	10,20	36 X 9 - 0,20	10,0 - 27
STO-1245-20	KTO-1245-20	12,45	36 X 11 - 0,20	12,0 - 29
STO-1530-30	KTO-1530-30	15,30	24 X 9 - 0,30	14,0 - 50
STO-3580-30	KTO-3580-30	35,80	36 X 14 - 0,30	25,0 - 70
STO-5110-30	KTO-5110-30	51,10	48 X 15 - 0,30	25,0 - 90

5. SFYO/KFYO - ROUND STRANDED CABLES WITH TUBULAR BRAID

Construction and Application:

These cables are a combination of an inner stranded cable that has an outer tubular braid to provide a higher mechanical stability. The overall tubular braid keeps the cable together against a probable decay caused by serial movements. The overall tubular braid provides also a higher cross-section than the nominal value.



Technical Data:

Material: 0,05 - 0,07 - 0,1mm annealed Cu ETP1 wires *uncoated.

Delivery: plastic reels, in rings, on spools or wooden drums.

UNCOATED Part-No	Cross sec. mm ²	Construction		diameter of cable mm	Weight kg/100m
		number of wires x diameter			
		ro. stranded	braided		
SFYO-0010	1	266 x 0,05	64 x 0,10	1,5	1,00
SFYO-0015	1,5	525 x 0,05	64 x 0,10	2	1,60
SFYO-0025	2,5	651 x 0,007	64 x 0,10	2,9	2,90
SFYO-0040	4	1036 x 0,007	64 x 0,10	3,6	4,60
SFYO-0060	6	1575 x 0,007	96 x 0,10	4,5	6,90
SFYO-0080	8	2058 x 0,007	96 x 0,10	5	9,40
SFYO-0100	10	2562 x 0,007	128 x 0,10	5,5	12,0
SFYO-0160	16	4116 x 0,007	192 x 0,10	7	19,50
SFYO-0250	25	3234 x 0,10	192 x 0,10	8,9	27,50
SFYO-0350	35	4508 x 0,10	240 x 0,10	10,5	41,0
SFYO-0500	50	6468 x 0,10	360 x 0,10	12,5	58,0
SFYO-0700	70	8967 x 0,10	360 x 0,10	14,7	81,0
SFYO-0950	95	12201 x 0,10	360 x 0,10	16,5	108,0
SFYO-1200	120	15435 x 0,10	360 x 0,10	19	134,0

6. SO/KO - FLEXIBLE FLAT BRAIDED COPPER TAPES

Construction and Application:

The principal difference compared to highly flexible ones is the stronger wires (0,16mm or 0,20mm) that are used.

They are used where you do not need special flexibility as ground braiding tapes for batteries. Our ready assembled earthing tapes are also manufactured from these tapes. Bigger cross sections are available on request.



Technical Data:

Material: 0,16 - 0,20mm annealed Cu ETP1 wires uncoated or tinned

- Noninsulated or PVC insulated

Delivery: plastic reels, in rings, on spools or wooden drums.

UNCOATED Part-No	TINNED Part-No	Cross sec. mm ²	Construction			Weight kg/100m
			wire dia. mm	number of wires	width thickness mm	
SO-0100-16	KO-0100-16	10	0,16	24 X 13	13 x 1,2	10
SO-0140-16	KO-0140-16	14	0,16	24 X 29	18 x 1,5	14
SO-0160-16	KO-0160-16	16	0,16	24 X 34	20 x 1,6	16
SO-0210-16	KO-0210-16	21	0,16	24 X 44	22 x 2	21
SO-0250-16	KO-0250-16	25	0,16	24 X 52	22 x 2,5	25
SO-0350-16	KO-0350-16	35	0,16	32 X 54	24 x 3	35
SO-0500-16	KO-0500-16	50	0,16	32 X 78	30 x 3,4	50
SO-0700-16	KO-0700-16	70	0,16	48 X 72	35 x 4,5	70
SO-0100-20	KO-0100-20	10	0,20	32 X 10	14 x 1,3	10
SO-0140-20	KO-0140-20	14	0,20	32 X 14	15 x 1,6	14
SO-0160-20	KO-0160-20	16	0,20	32 X 16	17 x 1,6	16
SO-0210-20	KO-0210-20	21	0,20	32 X 21	19 x 2,1	21
SO-0250-20	KO-0250-20	25	0,20	32 X 25	20 x 2,6	25
SO-0350-20	KO-0350-20	35	0,20	32 X 35	24 x 3	35
SO-0500-20	KO-0500-20	50	0,20	48 X 33	33 x 3,2	50
SO-0700-20	KO-0700-20	70	0,20	48 X 47	35 x 4,5	70

7. SFO/KFO - HIGHLY FLEXIBLE BRAIDED COPPER TAPES

Construction and Application:

These tapes are manufactured from annealed or tinned Cu-ETP1 wires (from 0,05mm to 0,10mm diameter) according to DIN EN 13602 as flat rolled tubes.

It is also possible to produce these braids according to your wishes. These braids are mainly used as highly flexible components for earthing, lightning protection as well as parts to manufacture highly flexible current connectors.



Technical Data:

Material: 0,05 - 0,07 – 0,1mm annealed Cu ETP1 wires uncoated or tinned

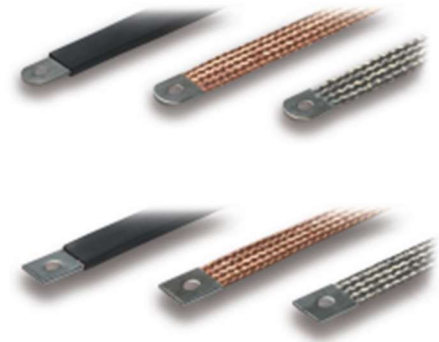
Delivery: plastic reels, in rings, on spools or wooden drums.

UNCOATED Part-No	TINNED Part-No	Cross sec. mm ²	Construction			Weight kg/100m
			wire dia. mm	number of wires	width thickness mm	
SFO-0010-05	KFO-0010-05	1	0,05	16 x 32	3,2 x 0,7	1,50
SFO-0015-07	KFO-0015-07	1,5	0,07	16 x 25	4 x 1	1,70
SFO-0020-07	KFO-0020-07	2	0,07	16 x 33	5 x 0,8	2,20
SFO-0025-07	KFO-0025-07	2,5	0,07	24 x 27	5,8 x 1	2,70
SFO-0040-07	KFO-0040-07	4	0,07	24 x 43	8,2 x 1	4,25
SFO-0060-07	KFO-0060-07	6	0,07	24 x 66	10 x 1	6
SFO-0080-07	KFO-0080-07	8	0,07	24 x 88	12 x 1,1	8
SFO-0100-07	KFO-0100-07	10	0,07	24 x 109	13,8 x 1,3	10
SFO-0160-10	KFO-0160-10	16	0,10	24 x 85	18 x 2	16
SFO-0250-10	KFO-0250-10	25	0,10	24 x 135	20 x 2,4	25
SFO-0350-10	KFO-0350-10	35	0,10	32 x 139	26 x 2,3	35
SFO-0500-10	KFO-0500-10	50	0,10	48 x 133	33 x 2,8	50
SFO-0700-10	KFO-0700-10	70	0,10	48 x 186	38 x 3	70
SFO-0950-10	KFO-0950-10	95	0,10	48 x 256	45 x 4,5	95
SFO-1200-10	KFO-1200-10	120	0,10	48 x 320	50 x 4,5	120
SFO-1400-10	KFO-1400-10	140	0,10	48 x 373	55 x 5,3	140
SFO-1680-10	KFO-1680-10	168	0,10	48 x 446	70 x 4,5	168

8. ST/KT - EARTHING TAPES WITH PRESSED CONTACT AREAS

Construction and Application:

These connectors are manufactured from highly flexible tapes, which are braided from annealed Cu-ETP1 wires, and solderless contact areas pressed from seamless Cu-ETP tubes. The braided tapes and tubes are of same analysis and conductivity. No additives are used at the process of pressing the contact areas. Applicable as earthing tape where needed and everywhere as component for current transfer.



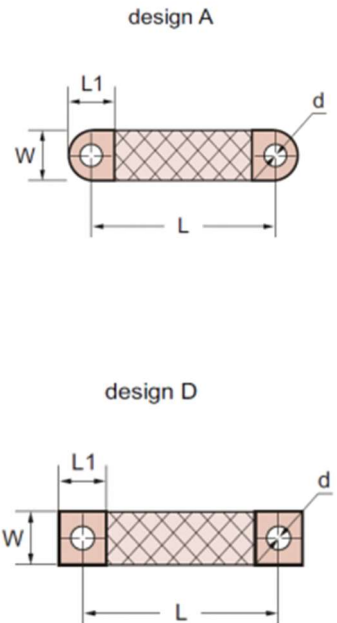
Technical Data:

Material: 0,07 - 0,20 mm annealed Cu-ETP wires , uncoated or tinned.

- Non-insulated or insulated (shrinking tubes, PVC, silicone tubes etc.)

Contact Areas: Seamless Cu-ETP tube ; uncoated - tinned or silver coated, solderless pressed.

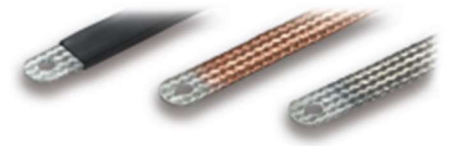
UNCOATED Part-No	TINNED Part-No	Cross sec. mm ²	DIMENSIONS				Current- load ampere
			W mm	L1 mm	L mm	d mm	
ST-004	KT-004	4	8	12	acc. to customers' wishes	acc. to customers' wishes	15
ST-006	KT-006	6	10	16			40
ST-008	KT-008	8	12	16			60
ST-010	KT-010	10	14	18			75
ST-014	KT-014	14	16	18			95
ST-016	KT-016	16	16	20			120
ST-021	KT-021	21	20	20			135
ST-025	KT-025	25	20	23			150
ST-035	KT-035	35	25	25			195
ST-050	KT-050	50	30	30			250
ST-070	KT-070	70	35	35			290
ST-095	KT-095	95	40	40			330
ST-120	KT-120	120	40	40	420		



9. STL/KTL – EARTHING TAPES WITH SOLDER SOLIDIFIED CONTACT AREAS

Construction and Application:

Manufactured from highly flexible tapes that are braided from annealed Cu-ETP wires, and contact areas, which are pressed to shape after solidified by immersing into alloyed lead-free solder. Applicable as earthing tape and component for current transfer.



Technical Data:

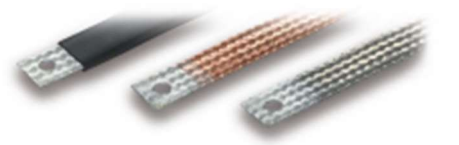
Material: 0,07 - 0,20 mm annealed Cu-ETP wires , uncoated or tinned.

Contact Areas: a metal alloyed leadfree solidified and pressed.

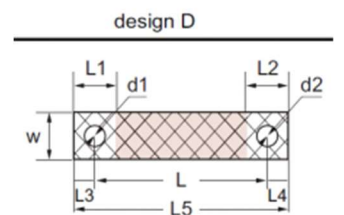
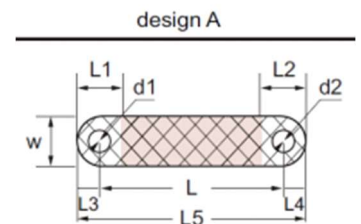
Insulation: non-insulated or insulated (shrinking tubes, PVC, silicone tubes etc.)

* The specifications, designs and dimensions given below are changeable according to customers' wishes.

* All information about current load are not binding , only approximate values.



UNCOATED Part-No	TINNED Part-No	Cross sec. mm ²	DIMENSIONS				Current- load ampere
			W mm	L1 mm	L mm	d mm	
STL-004	KTL-004	4	8	12	acc. to customers' wishes	acc. to customers' wishes	15
STL-006	KTL-006	6	10	16			40
STL-008	KTL-008	8	12	16			60
STL-010	KTL-010	10	14	18			75
STL-014	KTL-014	14	16	18			95
STL-016	KTL-016	16	16	20			120
STL-021	KTL-021	21	20	20			135
STL-025	KTL-025	25	20	23			150
STL-035	KTL-035	35	25	25			195
STL-050	KTL-050	50	30	30			250
STL-070	KTL-070	70	35	35			290
STL-095	KTL-095	95	40	40			330
STL-120	KTL-120	120	40	40	420		



11. ISTL/IKTL – INSULATED SHUNTS WITH SOLDER SOLIDIFIED CONTACT AREAS

Construction and Application:

Manufactured from highly flexible tapes that are braided from annealed Cu-ETP wires, and contact areas, which are pressed to shape after solidified by immersing into alloyed lead-free solder. Applicable as component for current transfer.

The best alternative to cable; no cutting, no crimping, flexible, pre-punched, ready to use, quick and easy to install.

Technical Data:

Material: 0,20 mm annealed Cu-ETP wires, uncoated or tinned.

Contact Areas: a metal alloyed leadfree solidified and pressed.

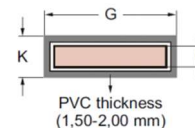
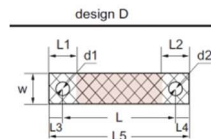
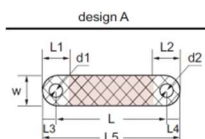
Insulation: special vinyl compound

Max. working temperature: 105°C self-extinguishable: UL 94 VO dielectric strength: 20 kV/mm

Max. working voltage: 1000 V AC - 1500 V DC



UNCOATED Part-No	TINNED Part-No	Cross sec. mm ²	DIMENSIONS												PACKING min. pcs
			L mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	w mm	t mm	K mm	G mm	d1 mm	d2 mm	
ISTL 025-230-10-8	IKTL 025-230-10-8	25 230	25	25	11	7	248	20	2	7	24	10,5	8,5	10	
ISTL 025-330-10-8	IKTL 025-330-10-8	25 330	25	25	11	7	348	20	2	7	24	10,5	8,5	10	
ISTL 025-430-10-8	IKTL 025-430-10-8	25 430	25	25	11	7	448	20	2	7	24	10,5	8,5	10	
ISTL 025-530-10-8	IKTL 025-530-10-8	25 530	25	25	11	7	548	20	2	7	24	10,5	8,5	10	
ISTL 025-630-10-8	IKTL 025-630-10-8	25 630	25	25	11	7	648	20	2	7	24	10,5	8,5	10	
ISTL 035 230-10-8	IKTL 035 230-10-8	35 230	25	25	11	7	248	20	3,2	7	24	10,5	8,5	10	
ISTL 035 330-10-8	IKTL 035 330-10-8	35 330	25	25	11	7	348	20	3,2	7	24	10,5	8,5	10	
ISTL 035 430-10-8	IKTL 035 430-10-8	35 430	25	25	11	7	448	20	3,2	7	24	10,5	8,5	10	
ISTL 035 530-10-8	IKTL 035 530-10-8	35 530	25	25	11	7	548	20	3,2	7	24	10,5	8,5	10	
ISTL 035 630-10-8	IKTL 035 630-10-8	35 630	25	25	11	7	648	20	3,2	7	24	10,5	8,5	10	
ISTL 050-230-10-8	IKTL 050-230-10-8	50 230	25	25	11	7	248	20	4,5	8	24	10,5	8,5	10	
ISTL 050-330-10-8	IKTL 050-330-10-8	50 330	25	25	11	7	348	20	4,5	8	24	10,5	8,5	10	
ISTL 050-430-10-8	IKTL 050-430-10-8	50 430	25	25	11	7	448	20	4,5	8	24	10,5	8,5	10	
ISTL 050-530-10-8	IKTL 050-530-10-8	50 530	25	25	11	7	548	20	4,5	8	24	10,5	8,5	10	
ISTL 050-630-10-8	IKTL 050-630-10-8	50 630	25	25	11	7	648	20	4,5	8	24	10,5	8,5	10	
ISTL 070-230-10-10	IKTL 070-230-10-10	70 230	25	25	11	11	252	20	5,5	9	24	10,5	10,5	10	
ISTL 070-330-10-10	IKTL 070-330-10-10	70 330	25	25	11	11	352	20	5,5	9	24	10,5	10,5	10	
ISTL 070-430-10-10	IKTL 070-430-10-10	70 430	25	25	11	11	452	20	5,5	9	24	10,5	10,5	10	
ISTL 070-530-10-10	IKTL 070-530-10-10	70 530	25	25	11	11	552	20	5,5	9	24	10,5	10,5	10	
ISTL 070-630-10-10	IKTL 070-630-10-10	70 630	25	25	11	11	652	20	5,5	9	24	10,5	10,5	10	
ISTL 095-230-10-10	IKTL 095-230-10-10	95 230	25	25	11	11	252	25	7	11	29	10,5	10,5	10	
ISTL 095-330-10-10	IKTL 095-330-10-10	95 330	25	25	11	11	352	25	7	11	29	10,5	10,5	10	
ISTL 095-430-10-10	IKTL 095-430-10-10	95 430	25	25	11	11	452	25	7	11	29	10,5	10,5	10	
ISTL 095-530-10-10	IKTL 095-530-10-10	95 530	25	25	11	11	552	25	7	11	29	10,5	10,5	10	
ISTL 095-630-10-10	IKTL 095-630-10-10	95 630	25	25	11	11	652	25	7	11	29	10,5	10,5	10	
ISTL 120-330-10-10	IKTL 120-330-10-10	120 330	30	30	11	14	355	30	7	11	34	10,5	10,5	2	
ISTL 120-430-10-10	IKTL 120-430-10-10	120 430	30	30	11	14	455	30	7	11	34	10,5	10,5	2	
ISTL 120-530-10-10	IKTL 120-530-10-10	120 530	30	30	11	14	555	30	7	11	34	10,5	10,5	2	
ISTL 120-630-10-10	IKTL 120-630-10-10	120 630	30	30	11	14	655	30	7	11	34	10,5	10,5	2	
ISTL 120-730-10-10	IKTL 120-730-10-10	120 730	30	30	11	14	755	30	7	11	34	10,5	10,5	2	
ISTL 120-830-10-10	IKTL 120-830-10-10	120 830	30	30	11	14	855	30	7	11	34	10,5	10,5	2	
ISTL 150-330-12-12	IKTL 150-330-12-12	150 330	30	30	14	14	355	30	9	13	34	12,5	12,5	2	
ISTL 150-430-12-12	IKTL 150-430-12-12	150 430	30	30	14	14	455	30	9	13	34	12,5	12,5	2	
ISTL 150-530-12-12	IKTL 150-530-12-12	150 530	30	30	14	14	555	30	9	13	34	12,5	12,5	2	
ISTL 150-630-12-12	IKTL 150-630-12-12	150 630	30	30	14	14	655	30	9	13	34	12,5	12,5	2	
ISTL 150-730-12-12	IKTL 150-730-12-12	150 730	30	30	14	14	755	30	9	13	34	12,5	12,5	2	
ISTL 150-830-12-12	IKTL 150-830-12-12	150 830	30	30	14	14	855	30	9	13	34	12,5	12,5	2	
ISTL 185-330-12-12	IKTL 185-330-12-12	185 330	30	30	14	14	355	30	10	14	34	12,5	12,5	2	
ISTL 185-430-12-12	IKTL 185-430-12-12	185 430	30	30	14	14	455	30	10	14	34	12,5	12,5	2	
ISTL 185-530-12-12	IKTL 185-530-12-12	185 530	30	30	14	14	555	30	10	14	34	12,5	12,5	2	
ISTL 185-630-12-12	IKTL 185-630-12-12	185 630	30	30	14	14	655	30	10	14	34	12,5	12,5	2	
ISTL 185-730-12-12	IKTL 185-730-12-12	185 730	30	30	14	14	755	30	10	14	34	12,5	12,5	2	
ISTL 185-830-12-12	IKTL 185-830-12-12	185 830	30	30	14	14	855	30	10	14	34	12,5	12,5	2	
ISTL 240-330-12-12	IKTL 240-330-12-12	240 330	30	30	14	14	355	30	13	17	34	12,5	12,5	2	
ISTL 240-430-12-12	IKTL 240-430-12-12	240 430	30	30	14	14	455	30	13	17	34	12,5	12,5	2	
ISTL 240-530-12-12	IKTL 240-530-12-12	240 530	30	30	14	14	555	30	13	17	34	12,5	12,5	2	
ISTL 240-630-12-12	IKTL 240-630-12-12	240 630	30	30	14	14	655	30	13	17	34	12,5	12,5	2	
ISTL 240-730-12-12	IKTL 240-730-12-12	240 730	30	30	14	14	755	30	13	17	34	12,5	12,5	2	
ISTL 240-830-12-12	IKTL 240-830-12-12	240 830	30	30	14	14	855	30	13	17	34	12,5	12,5	2	



12.PT – STAINLESS STEEL FLAT BRAIDED SHUNTS WITH SOLDERLESS PRESSED CONTACT AREAS

Construction and Application:

These connectors are manufactured from highly flexible tapes, which are braided from stainless steel wires, and solderless contact areas pressed from seamless Cu-ETP tubes. The braided tapes and tubes are of the same analysis and conductivity.

The best alternative to cable; no cutting, no crimping, flexible, pre-punched, ready to use, quick and easy to install.



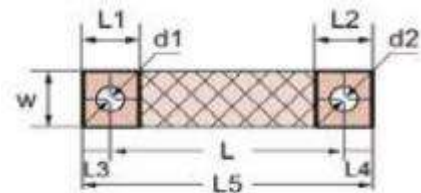
Technical Data:

Material: 0,16 to 0,40 mm stainless steel wire (316L or 304)

- Non-insulated or insulated (shrinking tubes, PVC, silicone tubes etc.)

Contact Areas: Solderless pressed stainless steel tube (316L)

Stainless Steel	Cross sec. mm ²	DIMENSIONS				according to customer wishes	according to customer wishes
		W mm	L1/L2 mm	L mm	d mm		
PT-016	16	16	16				
PT-025	25	20	20				
PT-035	35	30	30				
PT-050	50	30	30				
PT-070	70	30	30				
PT-095	95	30	30				
PT-120	120	35	35				
PT-150	150	40	40				



13.SF/KF – FLEXIBLE COPPER CONNECTORS

Construction and Application:

These connectors are manufactured from highly flexible tapes, which are braided from annealed Cu-ETP wires, and solderless contact areas pressed from seamless Cu-ETP tubes.

Except bare wires and uncoated contact areas, we also manufacture these parts from tinned wires and tin coated contact areas.

You can also ask for L or U shapes except than straight shape. It is possible to manufacture contact areas and the laps according to customers' special designs.

You are totally free to choose the drilling type and hole diameter as you wish.

If insulation is needed, there are choices as PVC, silicone or heat shrinking tubes as well as extruded PVC

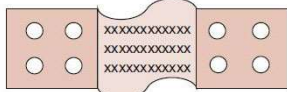
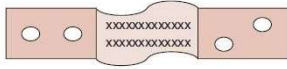
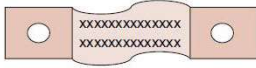


Technical Data:

Material: 0,10 - 0,20 mm annealed Cu ETP wires , uncoated or tinned

Non-insulated or insulated (PVC , shrinking or silicone tubes)

Contact Areas: seamless Cu ETP tubes , uncoated, tinned or silver coated, solderless pressed

UNCOATED Part-No	TINNED Part-No	Cross sec. mm ²	DIMENSIONS				Currentload ampere		Standard designs
			W mm	L1 mm	t mm	L mm	DC	AC	
SF-12055	KF-12055	4500	120	120	55	acc. to customers' wishes	5400	5200	
SF-12040	KF-12040	3000	120	120	40		4800	4500	
SF-12030	KF-12030	2000	120	120	30		3900	3800	
SF-12025	KF-12025	1500	120	120	22		3400	3200	
SF-12020	KF-12020	1200	120	120	20		2900	2750	
SF-12018	KF-12018	1000	120	120	18		2650	2500	
SF-12015	KF-12015	800	120	120	14		2150	2000	
SF-12010	KF-12010	600	120	120	10		1900	1750	
SF-10025	KF-10025	1500	100	100	25		2700	2550	
SF-10020	KF-10020	1000	100	100	20		2250	2150	
SF-10015	KF-10015	800	100	100	15		2100	2000	
SF-10012	KF-10012	600	100	100	12		1820	1720	
SF-10010	KF-10010	500	100	100	10		1600	1500	
SF-10007	KF-10007	400	100	100	7		1400	1300	
SF-10005	KF-10005	300	100	100	5		1150	1060	
SF-08020	KF-08020	1000	80	80	20		2100	1950	
SF-08018	KF-08018	840	80	80	18		1900	1800	
SF-08015	KF-08015	670	80	80	15		1700	1600	
SF-08012	KF-08012	500	80	80	12		1500	1400	
SF-08010	KF-08010	400	80	80	10		1300	1200	
SF-08008	KF-08008	350	80	80	8	1200	1100		
SF-08007	KF-08007	200	80	80	7	950	860		
SF-06015	KF-06015	550	60	60	15	acc. to customers' wishes	1400	1350	
SF-06012	KF-06012	500	60	60	12		1350	1300	
SF-06010	KF-06010	350	60	60	10		1150	1100	
SF-06007	KF-06007	200	60	60	7		900	850	
SF-06005	KF-06005	150	60	60	5		700	680	
SF-05015	KF-05015	550	50	50	15		1350	1200	
SF-05013	KF-05013	400	50	50	13		1050	1000	
SF-05010	KF-05010	250	50	50	10		900	850	
SF-05007	KF-05007	200	50	50	7		800	780	
SF-05005	KF-05005	150	50	50	5		650	630	
SF-04015	KF-04015	300	40	40	15	acc. to customers' wishes	900	850	
SF-04012	KF-04012	250	40	40	12		800	780	
SF-04010	KF-04010	200	40	40	10		700	680	
SF-04007	KF-04007	150	40	40	7		600	590	
SF-04005	KF-04005	100	40	40	5		500	480	
SF-03014	KF-03014	200	30	30	14		650	640	
SF-03010	KF-03010	150	30	30	10		550	540	
SF-03005	KF-03005	75	30	30	5		400	390	
SF-03004	KF-03004	50	30	30	4		300	290	
SF-02509	KF-02509	125	25	25	9		500	470	
SF-02507	KF-02507	100	25	25	7	450	420		
SF-02505	KF-02505	75	25	25	5	350	340		
SF-02504	KF-02504	50	25	25	4	300	280		

14.HSK – AIR COLLED ROUND STRADED CABLES FOR HIGH CURRENT

Construction and Application:

These connectors are manufactured from highly flexible round stranded copper cables, constructed from annealed 0,10mm diameter Cu-ETP1 wires , and solderless pressed contact areas from seamless Cu-ETP tubes.

Besides bare wires and uncoated Cu-ETP tubes , we can also manufacturing them according to your drawings or samples. The shape of the contact area and the type of drilling are totally up to you. We can also deliver them insulated with PVC , heat-shrinkable or silicon tubes.



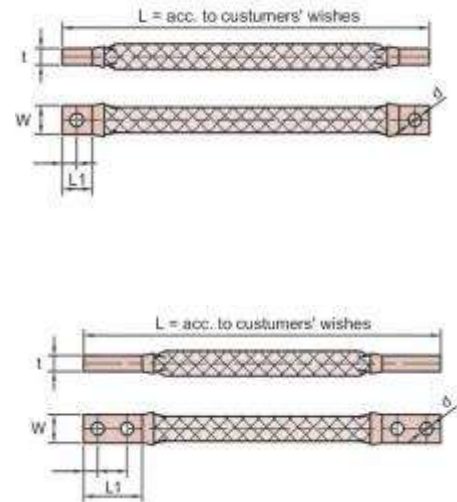
Technical Data:

Material: 0,10 mm annealed Cu ETP wires , uncoated or tinned

- Non-insulated or insulated (PVC , shrinking or silicone tubes)

Contact Areas: seamless Cu ETP tubes , uncoated or tinned, solderless pressed

UNCOATED Part-No	Cross sec. mm ²	Current load Amperre	type 2 L1 mm	type 1 L1 mm	W mm	t mm
HSK - 0070	70	300A	30	15	15	8,5
HSK - 0095	95	360A	40	20	20	8,3
HSK - 0120	120	420A	40	20	20	10
HSK - 0150	150	480A	50	25	25	11,5
HSK - 0185	185	570A	50	25	25	13,5
HSK - 0240	240	670A	60	32	32	12,8
HSK - 0300	300	780A	80	40	40	13,3
HSK - 0400	400	950A	80	40	40	15,5
HSK - 0500	500	1100A	80	40	40	23,5
HSK - 0600	600	1250A	80	40	55	18,8
HSK - 0700	700	1375A	80	40	55	20,2
HSK - 0750	750	1450A	80	40	55	21,8
HSK - 0850	850	1550A	80	40	55	22,3
HSK - 1000	1000	1800A	80	40	55	27



15.HSKK – AIR COLLED ROUND STRANDED CABLES FOR WELDING MACHINES

Construction and Application:

These connectors are produced from highly flexible round stranded copper cables equipped with solderless pressed seamless Cu-ETP tubes as contact areas at the ends.

They provide multi-dimensional movement flexibility as well as high current transfer at welding machines. We deliver them also with punched rubber insulation tube if needed.



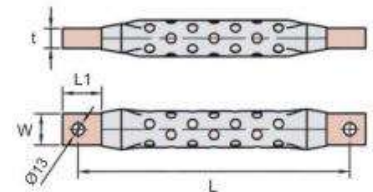
Technical Data:

Material: 0,10 mm annealed Cu ETP wires , uncoated or tinned

- punched rubber insulation tube

Contact Areas: seamless Cu ETP tubes , uncoated or tinned, solderless pressed

UNCOATED Part-No	Cross sec. mm ²	DIMENSIONS			
		W mm	L1 mm	L mm	t mm
HSKK - 0200	200	32	40	acc. to customers' wishes	12
HSKK - 0250	250	32	40		13
HSKK - 0300	300	32	40		15
HSKK - 0400	400	32	40		20,5
HSKK - 0500	500	32	40		23
HSKK - 0600	600	38	40		25
HSKK - 0750	750	38	40		32
HSKK - 0850	850	38	40		37



16.SST/SKT – SILICONE INSULATED FLAT BRAIDED SHUNTS WITH PRESSED CONTACT AREAS

Construction and Application:

These connectors are manufactured from highly flexible tapes, which are braided from annealed Cu-ETP1 wires, and solderless contact areas pressed from seamless Cu-ETP tubes. the braided tapes and tubes are of the same analysis and conductivity.

The best alternative to cable; no cutting, no crimping, flexible, pre-punched, ready to use, quick and easy to install.



Technical Data:

Material: 0,20 mm annealed Cu-ETP wires, uncoated or tinned.

- Silicone (UL 758 tested)

Contact Areas: Solderless pressed seamless Cu-ETP tube.

Operating Voltage: 1000V AC - 1500V DC

Heat Aging: 250°C 10 days

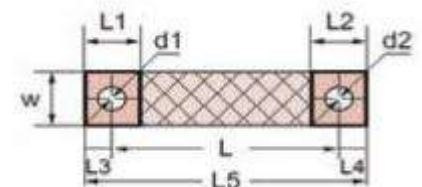
Minimum Temperature - Cold Bent: -50°C

Dielectric Strength: >21kv/mm

Reaction to Fire: CSE Class 1

Smoke Class Determination: F1

UNCOATED Part-No	TINNED Part-No	Cross sec. mm ²	DIMENSIONS				AC Amps
			W mm	L1 mm	t mm	L mm	
SST-02503	SKT-02503	25	20	20	3	according to customer wishes	160
SST-03503	SKT-03503	35	25	25	3		200
SST-05004	SKT-05004	50	30	30	4		250
SST-07005	SKT-07005	70	30	30	5		300
SST-09506	SKT-09506	95	35	35	6		350
SST-12007	SKT-12007	120	35	35	7		400
SST-15008	SKT-15008	150	35	35	8		450
SST-18509	SKT-18508	185	40	40	8		500
SST-24009	SKT-24010	240	40	40	10		630



17.SSTY/SKTY – SILICONE INSULATED ROUND STRANDED SHUNTS WITH PRESSED CONTACT AREAS

Construction and Application:

These connectors are manufactured from highly flexible tapes, which are braided from annealed Cu-ETP1 wires, and solderless contact areas pressed from seamless Cu-ETP tubes. the braided tapes and tubes are of the same analysis and conductivity.



The best alternative to cable; no cutting, no crimping, flexible, pre-punched, ready to use, quick and easy to install

Technical Data:

Material: 0,20 mm annealed Cu-ETP wires, uncoated or tinned.

Insulation: Silicone (UL 758 tested)

Contact Areas: seamless Cu ETP tubes , uncoated or tinned, solderless pressed

Operating Voltage: 1000V AC - 1500V DC

Heat Aging: 250°C 10 days

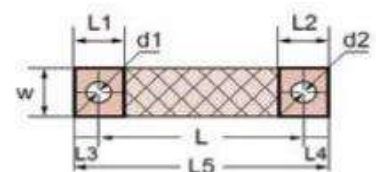
Minimum Temperature - Cold Bent: -50°C

Dielectric Strength: >21kv/mm

Reaction to Fire: CSE Class 1

Smoke Class Determination: F1

UNCOATED Part-No	TINNED Part-No	Cross sec. mm ²	DIMENSIONS						AC Amps
			W mm	L1/L2 mm	t mm	L mm	d1 mm	d2 mm	
SSTY-02503	SKTY-02503	25	20	20	3	according to customer wishes	according to customer wishes	according to customer wishes	160
SSTY-03503	SKTY-03503	35	25	25	3				200
SSTY-05004	SKTY-05004	50	30	30	4				250
SSTY-07005	SKTY-07005	70	30	30	5				300
SSTY-09506	SKTY-09506	95	35	35	6				350
SSTY-12007	SKTY-12007	120	35	35	7				400
SSTY-15008	SKTY-15008	150	35	35	8				450
SSTY-18509	SKTY-18508	185	40	40	8				500
SSTY-24009	SKTY-24010	240	40	40	10				630

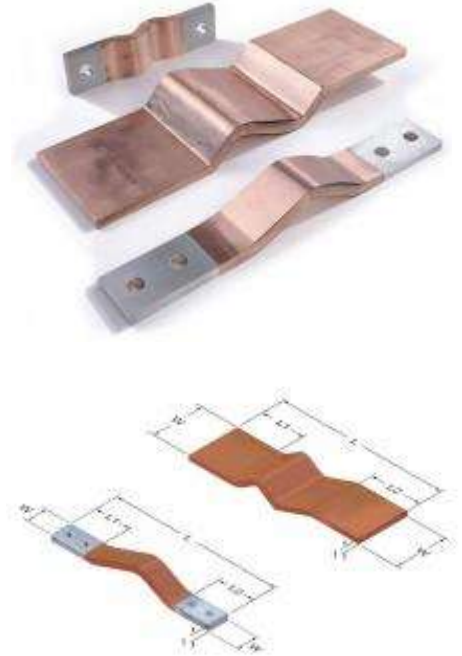


18.PK – FLEXIBLE PRESS WELDED EXPANSION CONNECTORS

Construction and Application:

These connectors are constructed from Cu-HCP foils with a thickness of 0,10 to 0,30 mm by overlapping the needed amount together and welding their ends as required contact areas without using any welding additive. This special welding process takes places under high pressure and intensive heat. These connectors have a uniform cross-section over their entire length and due to their homogeneous molecular structure ; they are perfect electrical conductors.

As press-welded expansion connectors can be subjected to the same loads as the corresponding bare busbars, they are mostly used together with busbar systems. As you can use them at standard dimensions with busbar systems; when installing several connectors side by side , the standard lamination widths are reduced by 2 mm to avoid possible friction. We produce these connectors in S or U form to compensate expansions caused by an increase of generators. They are perfect built to deal with maximum forces due to decentralization and torsion. Especially U forms are manufactured for realize the two-dimensional movement inside welding machines.



Technical Data:

Material: 0,10 - 0,30 mm copper HCP-foils.

Delivery: press- welded

UNCOATED Part-No	Cross sec. mm ²	DIMENSIONS			
		W mm	t mm	L1 mm	L2 mm
PK-2805-L	140	28	5		
PK-3805-L	190	38	5		
PK-4805-L	240	48	5		
PK-5805-L	290	58	5		
PK-7805-L	390	78	5		
PK-3810-L	380	38	10		
PK-4810-L	480	48	10		
PK-5810-L	580	58	10		
PK-7810-L	780	78	10		
PK-9810-L	980	98	10		
PK-3815-L	570	38	15		
PK-4815-L	720	48	15		
PK-5815-L	870	58	15		
PK-7815-L	1170	78	15		
PK-9815-L	1470	98	15		
PK-3820-L	760	38	20		
PK-4820-L	960	48	20		
PK-5820-L	1160	58	20		
PK-7820-L	1560	78	20		
PK-9820-L	1960	98	20		

19.FLEXIBLE PRESS RIVETED COPPER CONNECTORS FOR WELDING MACHINES

Construction and Application:

The E Cu / Cu ETP strips with 0,10 or 0,20 mm thickness are connected with pressing and riveting them together for the needed shape. Contact areas are additionally strengthened with thicker copper sheets. These kinds of connectors are mainly used where you need two-dimensional movements, greater current transfer, and resistance against heat such as welding guns and machines.



Technical Data:

Material: 0,10 - 0,20 mm copper Cu-ETP.

Contact Areas: Press riveted

UNCOATED Part-No	Cross sec. mm ²	DIMENSIONS				Weight kg/pcs
		W mm	L1 mm	t mm	L mm	
PK-04005-230	200	40	40	5	230	0,48
PK-04008-230	320	40	40	8	230	0,77
PK-04010-230	400	40	40	10	230	0,96
PK-04012-230	480	40	40	12	230	1,15
PK-04015-230	600	40	40	15	230	1,28
PK-04020-230	800	40	40	20	230	1,92
PK-05005-250	250	50	50	5	250	0,65
PK-05008-250	400	50	50	8	250	1,04
PK-05010-250	500	50	50	10	250	1,30
PK-05012-250	600	50	50	12	250	1,55
PK-05015-250	750	50	50	15	250	1,95
PK-05020-250	1000	50	50	20	250	2,60
PK-06005-270	300	60	60	5	270	0,83
PK-06008-270	480	60	60	8	270	1,33
PK-06010-270	600	60	60	10	270	1,66
PK-06012-270	750	60	60	12	270	1,99
PK-06015-270	900	60	60	15	270	2,51
PK-06020-270	1200	60	60	20	270	3,32
PK-08005-310	400	80	80	5	310	1,25
PK-08008-310	640	80	80	8	310	1,99
PK-08010-310	800	80	80	10	310	2,50
PK-08012-310	960	80	80	12	310	3,01
PK-08015-310	1200	80	80	15	310	3,75
PK-08020-310	1600	80	80	20	310	5
PK-10005-350	500	100	100	5	350	1,74
PK-10008-350	800	100	100	8	350	2,81
PK-10010-350	1000	100	100	10	350	3,48
PK-10012-350	1200	100	100	12	350	4,17
PK-10015-350	1500	100	100	15	350	5,27
PK-10020-350	2000	100	100	20	350	6,96
PK-10025-350	2500	100	100	25	350	8,70
PK-12005-390	600	120	120	5	390	2,26
PK-12008-390	960	120	120	8	390	3,68
PK-12010-390	1200	120	120	10	390	4,52
PK-12012-390	1440	120	120	12	390	5,50
PK-12015-390	1800	120	120	15	390	6,97
PK-12020-390	2400	120	120	20	390	9,04
PK-12025-390	3000	120	120	25	390	11,57

20. AF - FLEXIBLE ALUMINUM CONNECTORS

Construction and Application:

These connectors are manufactured from flexible tapes, which are braided from aluminum wires, and solderless contact areas pressed from seamless aluminum tubes.

You can also ask for L or U shapes except the straight shape. It is possible to manufacture contact areas and the laps according to customers' special designs.

You are totally free to choose the drilling type and hole diameter as you wish.

If insulation is needed, there are choices as PVC, silicone or heat shrinking tubes as well as extruded PVC

Technical Data:

Material: 0,10 - 0,20 mm aluminum wires.

Insulation: Non-insulated or insulated (PVC , shrinking or silicone tubes).

Contact Areas: seamless aluminum tubes.



Cat. No	Cross Section [mm ²]	Dim. W [mm]	Dim. L1 [mm]	Dim. t [mm]	Dim.L [mm]
AF-12055	4500	120	120	55	Acc. to customers wish
AF-12040	3000	120	120	40	
AF-12030	2000	120	120	30	
AF-12025	2000	120	120	22	
AF-12020	1200	120	120	20	
AF-12018	1000	120	120	18	
AF-12015	800	120	120	14	
AF-12010	600	120	120	10	
AF-10025	1500	100	100	25	
AF-10020	1000	100	100	20	
AF-10015	800	100	100	15	
AF-10012	600	100	100	12	
AF-10010	500	100	100	10	
AF-10007	400	100	100	7	
AF-10005	300	100	100	5	
AF-08020	1000	80	80	20	
AF-08018	840	80	80	18	
AF-08015	670	80	80	15	
AF-08012	500	80	80	12	
AF-08010	400	80	80	10	
AF-08008	350	80	80	8	
AF-08007	200	80	80	7	
AF-06015	550	60	60	15	
AF-06012	500	60	60	12	
AF-06010	350	60	60	10	
AF-06007	200	60	60	7	
AF-06005	150	60	60	5	
AF-05015	550	50	50	15	
AF-05013	400	50	50	13	
AF-05010	250	50	50	10	
AF-05007	200	50	50	7	
AF-05005	150	50	50	5	
AF-04015	300	40	40	15	
AF-04012	250	40	40	12	
AF-04010	200	40	40	10	
AF-04007	150	40	40	7	
AF-04005	100	40	40	5	
AF-03014	200	30	30	14	
AF-03010	150	30	30	10	
AF-03005	75	30	30	5	
AF-03004	50	30	30	4	
AF-02509	125	25	25	9	
AF-02507	100	25	25	7	
AF-02505	75	25	25	5	
AF-02504	50	25	25	4	

21.FB – INSULATED FLEXIBLE BUSBARS

Construction and Application:

These Flexible insulated busbars consist of several layers of uncoated or tinned copper strips and are insulated with highly flexible PVC or TPE compound with extrusion technology. They are excellently suitable for high current connections inside switchgears, solar energy panels and other electro technical installations. It is an ideal replacement for thick cables and solid bus bars.

The ends of the busbars can be used directly as connections by stamping holes on the laminated copper strips at ends.



Technical Data:

Conductor:

- ✓ Annealed copper strips (99.9%Cu)
- ✓ Single layer thickness 0.3~1mm
- ✓ Surface: uncoated or tinned
- ✓ Electrical conductivity: 56.2MS/m (corresponding to 97%IACS)
- ✓ Tensile strength: 200MPa
- ✓ Elongation: 30%

Insulation:

- ✓ Material: high flexible PVC or TPE; Color: PVC black or orange, TPE grey
- ✓ Thickness: 1~1.5mm (orange), 1.8~2.2mm (black)
- ✓ Coating method: extrusion
- ✓ Dielectric strength: >23kV/mm
- ✓ Tensile strength: 20MPa
- ✓ Elongation after 135°C 7-day aging test: >180%
- ✓ Oxygen index: 30%
- ✓ Flame retardant performance: self-extinguishing, UL94-V0

Working temperature:

- ✓ PVC: -30°C ~ +105°C
- ✓ TPE: -40°C ~ +135°C

Operating voltage: 600VAC/750VDC; 1000VAC/1500VDC

Voltage withstand performance with 15min/50Hz AC:

- ✓ Between busbar and ground: >15kV
- ✓ Between busbars: >30kV

Flame retardant performance: self-extinguishing, UL94-V0

UL758 certified

SGS certified: RoHS compliant

Delivery: standard length: 2m or 3 m (25m in roll is possible for 1-layer busbars)



Dimensions and ampacity:

Cat. No	Dim x burs q-ty	Cross section [mm ²]	Ampacity ΔT=20K	Ampacity ΔT=40K	Ampacity ΔT=50K
FB 15,5x0,8x2	15,5x0,8x2	24,8	125	175	200
FB 15,5x0,8x3	15,5x0,8x3	37,2	160	210	240
FB 15,5x0,8x4	15,5x0,8x4	49,6	195	265	295
FB 15,5x0,8x6	15,5x0,8x6	74,4	225	320	360
FB 15,5x0,8x8	15,5x0,8x8	99,2	265	380	430
FB 15,5x0,8x10	15,5x0,8x10	124	300	420	480
FB 20x1x2	20x1x2	40	170	240	270
FB 20x1x3	20x1x3	60	230	320	360
FB 20x1x4	20x1x4	80	270	380	440
FB 20x1x5	20x1x5	100	300	430	490
FB 20x1x6	20x1x6	120	330	470	530
FB 20x1x8	20x1x8	160	400	560	620
FB 20x1x10	20x1x10	200	420	580	650
FB 24x1x2	24x1x2	48	200	280	320
FB 24x1x3	24x1x3	72	250	360	410
FB 24x1x4	24x1x4	96	280	410	460
FB 24x1x5	24x1x5	120	330	470	530
FB 24x1x6	24x1x6	144	360	510	570
FB 24x1x8	24x1x8	192	420	590	670
FB 24x1x10	24x1x10	240	500	700	790
FB 32x1x2	32x1x2	64	230	320	360
FB 32x1x3	32x1x3	96	280	410	460
FB 32x1x4	32x1x4	128	320	460	520
FB 32x1x5	32x1x5	160	390	550	610
FB 32x1x6	32x1x6	192	440	620	700
FB 32x1x8	32x1x8	256	510	720	822
FB 32x1x10	32x1x10	320	600	840	930
FB 40x1x2	40x1x2	80	240	330	380
FB 40x1x3	40x1x3	120	330	480	540
FB 40x1x4	40x1x4	160	400	560	630
FB 40x1x5	40x1x5	200	450	630	710
FB 40x1x6	40x1x6	240	480	680	750
FB 40x1x8	40x1x8	320	600	830	920
FB 40x1x10	40x1x10	400	670	920	1030
FB 50x1x3	50x1x3	150	400	570	650
FB 50x1x4	50x1x4	200	490	700	790
FB 50x1x5	50x1x5	250	540	780	880
FB 50x1x6	50x1x6	300	590	840	950
FB 50x1x8	50x1x8	400	680	1000	1130
FB 50x1x10	50x1x10	500	750	1100	1300
FB 63x1x5	63x1x5	315	650	900	1000
FB 63x1x6	63x1x6	378	690	980	1100
FB 63x1x8	63x1x8	504	840	1200	1350
FB 63x1x10	63x1x10	630	920	1300	1450
FB 80x1x5	80x1x5	400	700	1100	1230
FB 80x1x6	80x1x6	480	780	1210	1360
FB 80x1x8	80x1x8	640	950	1400	1570
FB 80x1x10	80x1x10	800	1090	1550	1730
FB 100x1x5	100x1x5	500	860	1250	1400
FB 100x1x6	100x1x6	600	950	1380	1530
FB 100x1x8	100x1x8	800	1100	1580	1760
FB 100x1x10	100x1x10	1000	1220	1710	1920
FB 100x1x12	100x1x12	1200	1300	1800	2010

